



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY
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OFFICE OF
AIR AND RADIATION

December 15, 1999

VPCD-99-18 (LDV/LDT/SM/ICI/LIMO)

Dear Manufacturer:

SUBJECT: Changes to EPA's Data Base for 1999 CAFE to calculate credit for dual fuel, alternative fueled vehicles

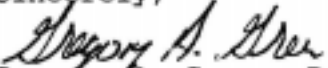
Enclosure I provides an outline of changes to the Certification and Fuel Economy Information System (CFEIS) data base to accommodate the calculation of 1999 and later Corporate Average Fuel Economy (CAFE) mpg values. These changes will be implemented in the first quarter of 2000, and are being provided at this time for planning purposes only.

These changes allow the EPA CFEIS data base to calculate two CAFE mpg values for compliance categories which contain dual fuel, alternative fueled vehicles. The two calculations are necessary so that EPA can assure that the CAFE mpg increase (attributed to dual fuel vehicles) will not exceed 1.2 mpg for model years 1993-2004 or 0.9 mpg for 2005-2008 model years (if DOT extends this provision by regulation to the 2005-2008 model years).¹

Although manufacturers producing dual fuel, alternative fueled vehicles will be required to submit two sets of CAFE input records to our data base, we believe that the additional burden will be minimal because the second set of input records will contain many duplicate records from the first set. Manufacturers who do not produce dual fuel, alternative fueled vehicles will have no additional burden (and continue to submit one set of CAFE input records).

If you have any questions about this letter, please contact your certification team representative.

Sincerely,


Gregory A. Green, Director
Vehicle Programs and Compliance Division
Office of Mobile Sources

Enclosure

cc: L. Fleming, DOT

¹Ref 49 U.S.C 32905 and 32906.



Enclosure I

Changes to EPA Data Base - 1999 Model Year and Later

This Enclosure outlines changes which will be made to EPA's Certification and Fuel Economy Information System (CFEIS) data base in the first quarter of 2000. After the changes are made to the data base, the CFEIS Manufacturers User Guide (CMUG) will be updated accordingly, ref. www.epa.gov/oms/cmug.htm. This Enclosure also includes some user tips for entering data after the changes have been made.

1. Changes to the Corporate Average Fuel Economy (CAFE) Program:

<u>Field Name</u>	<u>Record Type</u>	<u>Position</u>	<u>Valid Range/Comments</u>
<u>Compliance Category</u>	<u>F1</u>	<u>58-58</u>	1 - Domestic Passenger Vehicles 2 - Import Passenger Vehicles 7 - Domestic Light Trucks 8 - Import Light Trucks A - Domestic Passenger Vehicles - Baseline Calculation (without extra credit for dual fuel, alternative fueled vehicles) B - Import Passenger Vehicles - Baseline Calculation (without extra credit for dual fuel, alternative fueled vehicles) C - Light Trucks - Baseline Calculation (without extra credit for dual fuel, alternative fueled vehicles)
<u>Compliance Category</u>	<u>FS</u>	<u>14-14</u>	Same as above, F1 record, position 58-58.
<u>Average FE Unadjusted 4 Decimal</u>	<u>FS</u>	<u>24-30</u>	00.0000 - 9999999 Note: the mpg value entered may exceed the 1.2 mpg maximum credit allowed for production of dual fuel, alternative fueled vehicles.
<u>Average FE Unadjusted 1 Decimal</u>	<u>FS</u>	<u>32-35</u>	00.0 - 99.9 Note: the mpg value entered may exceed the 1.2 mpg maximum credit allowed for production of dual fuel, alternative fueled vehicles.
<u>Average FE Adjusted</u>	<u>FS</u>	<u>37-40</u>	00.0 - 99.9 Note: the mpg value entered may exceed the 1.2 mpg maximum credit allowed for production of dual fuel, alternative fueled vehicles.
<u>Official CAFE MPG Value</u>	<u>FS</u>	<u>47-50 (new)</u>	00.0 - 99.9 Note: the mpg value entered should <u>not</u> exceed the 1.2 mpg maximum credit allowed for production of dual fuel, alternative fueled vehicles.

2. Tips for Entering Dual Fueled CAFE Data into the Data Base

2.1. General Instructions for Submitting Data from Dual Fuel Vehicles into CFEIS:

Instructions are provided in manufacturer guidance letter VPCD-99-04, dated March 12, 1999, available on the Internet at <http://www.epa.gov/oms/cert.htm>. Those instructions are still applicable for entering test data from flexible-fuel and dual fuel vehicles into CFEIS for certification and for fuel economy labels. However, the CAFE instructions provided in VPCD-99-04 are superceded by the guidance in this letter.

Note: Data from LPG (Propane) vehicles should not be entered into the CFEIS data base at this time. Additional guidance will be provided for LPG vehicles in the near future.

2.2. Instructions for Submitting CAFE Data into CFEIS:

2.2.1. Entering Test Data - Enter test data for any alternative fueled vehicles into the CFEIS data base using test type 32 (analytical) data in the MDTS program, using the appropriate factored fuel economy mpg values. Be sure to use the correct carline name in the data base for any electric vehicles and other alternative-fueled vehicles.

Note: Manufacturers can submit unfactored test data from alternative fueled vehicles to the CFEIS data base for use in FE Label calculations, but currently this data should not be used for CAFE purposes.

2.2.2. Actual CAFE Calculation - Manufacturers should submit CAFE input records as usual to calculate CAFE mpg value, using compliance categories 1, 2, 7, or 8 (F1 record, position 58, and FS record, position 14). Use the analytical test type 32 data submitted in step 2.2.1. to obtain full mpg credit for all alternative fuel vehicles (including dedicated, dual fuel and electric vehicles) .

Note: For this calculation, the credit for dual fuel, alternative fueled vehicles may exceed the 1.2 mpg maximum currently allowed by 49 U.S.C. 32906. The CFEIS program will correct the official value for any excess credit.

2.2.3. Baseline CAFE Calculation - This is a new requirement, applicable to manufacturers producing alternative fuel, dual fueled vehicles (not including dual fueled electric vehicles). If applicable, manufacturers should submit a second set of input cards to calculate the baseline CAFE mpg value, using compliance categories A, B, or C, as applicable. The baseline CAFE value does not include any extra credit for alternative fuel, dual fuel vehicles; but does include the full mpg credit for dedicated fuel alternative fueled vehicles, electric vehicles, and for dual fuel electric vehicles. The input records for this submission should be very similar to those entered in step 2.2.2., except as follows:

<u>Record</u>	<u>Position</u>	<u>Difference</u>
F1	58-58	Compliance Category - Use A, B, or C, as applicable.
FT	22-28	Test number - For alternative fuel, dual fuel vehicles (except dual-fuel electric vehicles) use test numbers which contain the gasoline or diesel mpg values instead of the test type 32 data from step 2.2.1.
FS	14-14	Compliance Category - Use A, B, or C, as applicable.
FS	24-30	Average FE Unadjusted 4 Decimal - Use appropriate value for the baseline calculation.
FS	32-35	Average FE Unadjusted 1 Decimal - Use appropriate value for the baseline calculation.
FS	37-40	Average FE Adjusted - Use appropriate value for the baseline calculation.

Note: Use test type 32 data submitted in step 2.2.1. to obtain the full mpg credit for dedicated fuel alternative fueled vehicles, electric vehicles and dual fuel electric vehicles.

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